



# HYGIENETECH

Hygiene Technologies International, Inc.

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August 22, 2008

California State Board of Equalization  
450 N Street  
Sacramento, California 94279

Document No. 20802001.14

Attention: David Gau

Regarding: Limited Indoor Air Quality Survey  
9<sup>TH</sup> Floor

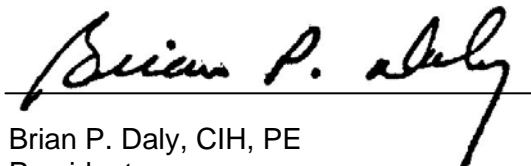
Dear Mr. Gau:

On various dates in February, March, and April of 2008, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 9<sup>TH</sup> Floor of the California State Board of Equalization building located at the above mentioned address. At the time of the survey, various samples were collected and direct-reading instruments were used to assess the general indoor air quality, with a clear emphasis on establishing fungal growth exposure potential data. I have enclosed our report, which included general observations, sample and direct-reading results, a discussion of the data, conclusions, and recommendations.

If you have any comments or questions regarding the information contained in this report, please do not hesitate to contact our offices directly at (310) 370-8370.

Sincerely,

**HYGIENE TECHNOLOGIES INTERNATIONAL, INC.**



Brian P. Daly, CIH, PE  
President



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## **LIMITED INDOOR AIR QUALITY SURVEY**

**450 N STREET – 9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA**

### **PREPARED FOR:**

**CALIFORNIA STATE BOARD OF EQUALIZATION  
450 N STREET  
SACRAMENTO, CALIFORNIA**

### **PREPARED BY:**

**HYGIENE TECHNOLOGIES INTERNATIONAL, INC.  
3625 DEL AMO BOULEVARD, SUITE 180  
TORRANCE, CALIFORNIA**

**AUGUST 22, 2008**



## **1.0 BACKGROUND**

On various dates in February, March, and April of 2008, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted a limited indoor air quality survey on the 9<sup>TH</sup> Floor of the California State Board of Equalization Building located at 450 N Street in Sacramento, California. During the survey, a variety of samples were collected and direct-reading instruments were used to assess the general indoor air quality on the 9<sup>TH</sup> Floor of the subject building. Various air and surface samples were collected in order to assess fungal growth exposure potentials and to establish fungal growth assessment information on selected building material surfaces. In addition, air samples were collected throughout the floor for fibrous dust, microbial volatile organic compounds (MVOCs), and total dust analysis and direct-reading instruments were used to determine airborne volatile organic compounds (VOCs), carbon dioxide (CO<sub>2</sub>), ozone (O<sub>3</sub>), air temperature, and relative humidity.

## **2.0 OBSERVATIONS**

The interior building materials of the 9<sup>TH</sup> Floor included, but were not limited to, metal window frames; painted gypsum board and/or metal windowsills; metal doorjambs and door frames; painted gypsum board walls in the general work areas; tile covered walls and painted gypsum board ceilings in the restrooms; suspended 2' by 4' ceiling tiles in the general work areas; vinyl cove base; carpet flooring in the general work areas; and ceramic or vinyl tile flooring in the restrooms and break rooms.

The furnishings in the surveyed areas included desks, upholstered chairs, shelves, fabric covered cubicles, office supplies, computers, and other electronic office equipment. The furnishings did not appear to support fungal growth, nor did they appear to have been affected in any other manner by water intrusion. However, be advised that visible accumulation of debris, dust, and other particulates was observed on the reverse side of all sampled HVAC supply air registers.

## **3.0 SAMPLING AND ANALYSIS**

Air samples were collected and subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. Other samples were collected for airborne fibers, MVOCs, and total dust determinations using SKC<sup>®</sup> brand Airchek<sup>®</sup> 52 sampling pumps and the appropriate sampling media. Pump flow rates were established and verified using a BIOS DryCal DC-Lite primary flow meter. Those samples were collected and analyzed along with blanks (identical sampling media through which no air was drawn), when necessary, at laboratories accredited by the American Industrial Hygiene Association (AIHA) through successful participation in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing Program. Direct-reading instruments were used to determine airborne O<sub>3</sub> and VOC levels, the results of which appear in Table 20802001-141 in Appendix A of this report. A discussion of the airborne CO<sub>2</sub> data, along with air temperature and relative humidity results, appears in Section 4.0 of this report. Additional information concerning the specific sampling and analytical methods appears below.



### **3.0 SAMPLING AND ANALYSIS (CONTINUED)**

#### **3.1 Airborne Total Fungi**

Air samples for airborne total (viable and nonviable) fungi determinations were collected using a Zefon brand Bio-Pump™ equipped with Allergenco-D™ cassettes. All such samples were collected at various indoor locations and two samples were collected outdoors on each applicable survey date for comparison purposes. The resultant data, which are presented in spores per cubic meter of air (spores/M<sup>3</sup>), appear in Table 20802001-135.

#### **3.2 Airborne Viable Fungi**

Air samples for airborne viable fungi determinations were collected on malt extract agar (MEA) using a Gast brand high volume air-sampling pump equipped with an Aerotech 6™ Single Stage Bioaerosol Sampler. Two outdoor samples were also collected on the applicable survey date for comparison purposes. The media was incubated prior to enumeration of colony-forming units per agar plate and the resultant data, presented in colony forming units per cubic meter of air (CFU/ M<sup>3</sup>), can be found in Table 20802001-136.

#### **3.3 Surface Fungal Growth Potentials**

Surface samples were collected for fungal growth assessment using Zefon brand Bio-Tape™ surface samplers. Additionally, surface fungi samples were collected from various heating, ventilating, and air conditioning (HVAC) supply air register surfaces using Healthlink® Transporters™ (Rayon tipped swabs immersed in 0.5 ml modified Stuart's transport medium). These data are presented in Table 20802001-137.

#### **3.4 Airborne Fibrous Dust**

Area air samples for fibrous dust were collected at stationary locations on 25-millimeter diameter, 0.8-micrometer pore size, mixed cellulose ester filters. The samples were analyzed by phase contrast microscopy (PCM) in accordance with the NIOSH Method 7400. These data are presented in fibers per cubic centimeter (f/cc) of air in Table 20802001-138.

#### **3.5 Airborne Total Dust**

Area air samples for total dust determination were collected at stationary locations on filter cassettes containing pre-weighed 37-millimeter diameter, polyvinyl chloride filters having a pore size of five micrometers. The samples were analyzed by gravimetric method in accordance with the NIOSH Method 0500. These data are presented in milligrams per cubic meter of air (mg/M<sup>3</sup>) and appear in Table 20802001-139.

#### **3.6 Microbial Volatile Organic Compounds**

Area samples for MVOCs were collected on solid sorbent tubes equipped with Sagelock fittings. The samples were analyzed by gas chromatography/ mass spectrometry, modified for MVOCs following the AIHA field guide. These data are presented in mg/M<sup>3</sup> and appear in Table 20802001-140.



### 3.0 SAMPLING AND ANALYSIS (CONTINUED)

#### 3.7 Airborne Volatile Organic Compounds

Direct-reading air measurements for VOCs were also recorded at various locations on the 9<sup>th</sup> Floor using a RAE Systems, Inc. Mini-RAE 2000 photoionization detector, which is capable of detecting a wide variety of unsaturated hydrocarbons at airborne concentrations ranging from 0.1 to 10,000 parts per million (ppm). Prior to the survey, this instrument was calibrated using a 100-ppm isobutylene gas standard. These data are presented in parts per million (ppm).

#### 3.8 Airborne Ozone

Direct-reading air measurements for O<sub>3</sub> were recorded at various locations using a Dräger colorimetric detector tube apparatus with the appropriate detector tubes. The data are presented in ppm.

#### 3.9 Airborne Carbon Dioxide

Direct-reading air measurements for airborne CO<sub>2</sub> concentration was recorded at a stationary location using a Telaire<sup>®</sup> 7001 Carbon Dioxide and Temperature Monitor along with the HOBO<sup>®</sup> data logger. The data are presented in ppm.

#### 3.10 Air Temperature and Relative Humidity

Air temperature and relative humidity data were recorded at a stationary location using a Telaire<sup>®</sup> 7001 Carbon Dioxide and Temperature Monitor along with the HOBO<sup>®</sup> data logger.

### 4.0 DISCUSSION

#### 4.1 Airborne Total Fungi

The airborne total fungi data showed common spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, *Oidium*, other brown, other colorless, and/or smuts, with basidiospores predominating in both samples. Indoors, the ambient data showed low airborne concentrations of common fungal spores that included one or more of the following: basidiospores, *Cladosporium*, colorless spores typical of *Penicillium* and *Aspergillus* species, other brown, and/or smuts. Indoors, the distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall data recorded outdoors. These data are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.



## 4.0 DISCUSSION (CONTINUED)

### 4.2 Airborne Viable Fungi

The viable fungi data recorded outdoors showed overall levels of 159 CFU/M<sup>3</sup> and 461 CFU/M<sup>3</sup> in the two samples collected, with *Cladosporium* predominating in both. Indoors, low levels of common fungi were found including *Aspergillus fumigatus*, *Cladosporium*, *Penicillium*, and/or yeasts. Again, the data recorded were unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

### 4.3 Surface Fungal Growth Potentials

The surface assessment data involving the samples collected from various cubicle partitions surfaces throughout the 9<sup>TH</sup> Floor indicated no evidence of fungal growth or above-background levels of loose fungal spores on those surfaces. However, the surface assessment data involving samples collected from the HVAC supply air registers indicated fungal growth involving *Cladosporium* and/or colorless spores typical of *Penicillium* and *Aspergillus* on four of the eight registers sampled. Be advised that visible accumulation of debris, dust, and other particulates was observed on the reverse side of all sampled HVAC supply air registers, and that such conditions are indicative of an environment that may promote fungal growth.

### 4.4 Airborne Fibrous Dust

The data recorded in the surveyed areas indicated that airborne fibrous dusts were detected at levels ranging from 0.005 f/cc to 0.01 f/cc. Because the samples were collected at stationary locations at approximate breathing zone height, the resultant data are expected to represent building occupant *exposure potentials* for those persons working in or passing through the areas monitored. These data, which are expected to represent employee *exposure potentials* to fibers of various types, including man-made and natural mineral fibers, cellulosics (paper or wood composition), gypsum, and other fibrous dusts common in the environment, are well below the current Cal-OSHA 8-hour TWA PEL for asbestos fibers of 0.1 f/cc, the most restrictive exposure limit for fibrous dusts.

### 4.5 Airborne Total Dust

Common dust that is typically identified in buildings usually contains a wide variety of materials including, but not limited to, gypsum crystals, cellulosic particles, fiberglass fragments, mineral grains from soil, fungi spores, fine glass fibers, textile and wood fibers, iron or steel fragments, dead skin cells, insect parts, animal dander, and pollens. Generally, exposure to low levels of such materials does not produce ill effects in most persons. In fact, these so-called *nuisance dusts* have a long history of little adverse effect to the lungs and are not known to produce significant diseases or toxic effects, such as collagen (scar tissue) formation, when exposure are kept under reasonable control.

The data recorded in the surveyed areas showed that airborne total dust was not detected at or above the respective laboratory analytical detection limits of 0.13 mg/M<sup>3</sup> and 0.14 mg/M<sup>3</sup>. Because the samples were collected at stationary locations at approximate breathing zone height, the resultant data are expected to represent building occupant *exposure potentials* for those persons working in or passing through the areas monitored. These data are well below the State of California, Department of Industrial Relations, Division of Occupational Safety and Health



## 4.0 DISCUSSION (CONTINUED)

### 4.5 Airborne Total Dust (Continued)

(Cal-OSHA) 8-hour time-weighted average (TWA) permissible exposure limit (PEL) for total dust of 10 mg/M<sup>3</sup>, as defined in Title 8 of the California Code of Regulations, Section 5155 (T8, CCR § 5155). Note that these data are also well below the American Conference of Governmental Industrial Hygienists 8-hour TWA threshold limit value (TLV-TWA) for particulate (not otherwise classified) of 10 mg/M<sup>3</sup>; the U.S. Environmental Protection Agency (EPA) National Ambient Air Quality Primary Standard of 0.26 mg/M<sup>3</sup> (24-hour standard); and the American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. (ASHRAE) theoretical value for non-occupational environments of 1/10 of the TLV.

### 4.6 Airborne Microbial Volatile Organic Compounds

Microbial Volatile Organic Compounds (MVOCs) are composed of low molecular weight alcohols, aldehydes, amines, ketones, terpenes, aromatic and chlorinated hydrocarbons, and sulfur-based compounds that are known to be byproducts of microbial metabolism. MVOCs have a very low odor threshold, thus, making them easily detectable by smell. They often have strong odors and are responsible for the smells generally associated with fungal growth.

The airborne MVOC data indicated the presence of 1-butanol at levels ranging from 360 ng/m<sup>3</sup> to 537 ng/m<sup>3</sup>, 2-hexanone at levels ranging from 69 ng/m<sup>3</sup> to 105 ng/m<sup>3</sup>, and 2-heptanone at levels ranging from 115 ng/m<sup>3</sup> to 208 ng/m<sup>3</sup>. Microbial growth related VOCs would not be expected to be present indoors without additional MVOCs such as ethanol, 1-octen-3-ol, 2-octen-1-ol, benzyl cyanide, 2-methyl-isoborneol, geosmin (1-10-dimethyl-*trans*-9-decalol), and/or terpenes also being present. The fact that the above mentioned MVOC were found at very low levels indoors would indicate that such MVOCs were most likely not fungal growth related and attributable to personal products such as perfumes and other personal cosmetic products. All such data are well below the applicable Cal-OSHA 8-hour TWA PELs as defined in T8, CCR § 5155.

### 4.7 Airborne Volatile Organic Compounds

With the use of a direct-reading photoionization detector, VOCs were not detected at or above the instrument detection limit of 0.1 ppm. Because these data were recorded at stationary locations at approximate breathing zone height, the results are expected to represent building occupant *exposure* potentials for those persons occupying or passing through the areas monitored. These data were well below the surrogate Cal-OSHA PELs that are often used for comparative purposes regarding VOC exposures, such as those for gasoline, hexane, and varnish makers and painters (VM&P) naphtha.

### 4.8 Airborne Ozone

O<sub>3</sub> was not detected at or above the Dräger instrument detection limits of 0.05 ppm.



## 4.0 DISCUSSION (CONTINUED)

### 4.9 Airborne Carbon Dioxide

On April 7, 2008, the direct-reading results indicated that CO<sub>2</sub> was detected at levels ranging from 493 to 718 ppm on the 9<sup>TH</sup> Floor. While these data were somewhat higher than the expected outdoor CO<sub>2</sub> levels, which generally range between 320 and 350 ppm, they are considered normal for occupied indoor environments and they are all well below the Cal-OSHA 8-hour TWA PEL for CO<sub>2</sub> of 5000 ppm (T8, CCR, § 5155). They are also below the level of 1000 ppm, which is essentially equivalent to the recommended upper limit for building occupant comfort and odor control established by ASHRAE (not greater than 700 ppm above the outdoor CO<sub>2</sub> value) as stated in ASHRAE 62-2001.

Based on historic studies performed by HygieneTech, building occupant complaints of "stuffy" air often begin when CO<sub>2</sub> levels exceed 800 ppm. HygieneTech has also found that some sensitive persons may experience discomfort, including eye irritation and headache, when CO<sub>2</sub> levels reach 1,000 ppm. Such symptoms are not believed to be the result of an unhealthful exposure to CO<sub>2</sub>; rather, they are thought to be the result of exposure to other common indoor air pollutants which, if not exhausted and/or diluted, can accumulate over time.

### 4.10 Air Temperature and Relative Humidity

On April 7, 2008, the air temperatures ranged between 73.84 and 74.53 degrees Fahrenheit (°F). Based on the experience of HygieneTech, the air temperatures perceived as comfortable by most persons in office environments, and recommended by ASHRAE for occupant comfort, range between 68.0 and 74.5°F (winter) and 73.0 and 79.0°F (summer). The air temperatures recorded in the surveyed areas were well within the comfort range recommended for the summer months.

Relative humidity data were recorded indoors at levels ranging from 23.4 to 27.8 percent. Such levels were well within the 20 to 60 percent relative humidity level range recommended by ASHRAE for occupant comfort. Note that HygieneTech recommends that the relative humidity in buildings not exceed 50 percent in order to limit the potential for fungal growth.

## 5.0 CONCLUSIONS

- 5.1 The airborne total and viable fungi data recorded in the surveyed areas showed airborne fungi levels that were below those recorded outdoors and therefore considered unremarkable. These data are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.
- 5.2 The surface assessment data involving the samples collected from various cubicle partitions surfaces throughout the 9<sup>TH</sup> Floor indicated no evidence of fungal growth or above-background levels of loose fungal spores on those surfaces. However, the surface assessment data involving samples collected from the HVAC supply air registers indicated fungal growth involving *Cladosporium* and/or colorless spores typical of *Penicillium* and *Aspergillus* on four of the eight registers sampled. Be advised that visible accumulation of debris, dust, and other particulates was observed on the reverse side of all sampled HVAC supply air registers, and that such conditions are indicative of an environment that may promote fungal growth.



## 5.0 CONCLUSIONS (CONTINUED)

- 5.3 The airborne total and fibrous dust, VOC, O<sub>3</sub>, and CO<sub>2</sub> recorded during the survey were unremarkable. Collectively, the data were well below applicable Cal-OSHA 8-hour TWA PELs and/or other occupational, non-occupational, ASHRAE, or foreign guidelines. The data are not expected to represent conditions that pose a measurable health risk to the building occupants.
- 5.4 The airborne MVOC data indicated the presence of 1-butanol at levels ranging from 360 ng/m<sup>3</sup> to 537 ng/m<sup>3</sup>, 2-hexanone at levels ranging from 69 ng/m<sup>3</sup> to 105 ng/m<sup>3</sup>, and 2-heptanone at levels ranging from 115 ng/m<sup>3</sup> to 208 ng/m<sup>3</sup>. Microbial growth related VOCs would not be expected to be present indoors without additional MVOCs such as ethanol, 1-octen-3-ol, 2-octen-1-ol, benzyl cyanide, 2-methyl-isoborneol, geosmin (1-10-dimethyl-*trans*-9-decalol), and/or terpenes also being present. The fact that the above mentioned MVOC were found at very low levels indoors would indicate that such MVOCs were most likely not fungal growth related and attributable to personal products such as perfumes and other personal cosmetic products. All such data are well below the applicable Cal-OSHA 8-hour TWA PELs as defined in T8, CCR § 5155.
- 5.5 On April 7, 2008, the indoor air temperatures ranged between 73.84 and 74.53 degrees Fahrenheit (°F). Based on the experience of HygieneTech, the air temperatures perceived as comfortable by most persons in office environments, and recommended by ASHRAE for occupant comfort, range between 68.0 and 74.5°F (winter) and 73.0 and 79.0°F (summer). The air temperatures recorded in the surveyed areas were well within the comfort range recommended for the summer months. Relative humidity data were recorded indoors at levels ranging from 23.4 to 27.4 percent, levels that were well within the 20 to 60 percent relative humidity level range recommended by ASHRAE for occupant comfort. Note that HygieneTech recommends that the relative humidity in buildings not exceed 50 percent in order to limit the potential for fungal growth.
- 5.6 Be advised that the data provided in this report only represent fungal growth and exposure potentials that existed at the time the survey was performed and at the precise sample locations only, the latter of which were selected based on the available background information provided. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the survey.

## 6.0 RECOMMENDATIONS

All such recommendations are based strictly on the assessment information and analytical data that were available to HygieneTech at the time this report was prepared. Be advised that, in order to establish data that accurately reflects all the fungal growth sites on the 9<sup>th</sup> Floor, additional assessment evaluations may be required as more information is known regarding the history of water intrusion episodes in discrete building areas.



## 6.0 RECOMMENDATIONS (CONTINUED)

- 6.1 If not yet established, an accurate record of all air monitoring results should be maintained in accordance with Cal-OSHA regulation found in T8, CCR § 3204. All affected employees should be informed that the *exposure potential* data in this report exist and that those persons, or their representatives, have a right to access relevant exposure data and medical records.
- 6.2 Routine cleaning of the HVAC supply air registers on the 9<sup>th</sup> Floor should be performed to preclude the build-up of dust and debris, which may potentially contribute to fungal growth on those surfaces.
- 6.3 Also be advised that the exposure data recorded during the survey may not be sufficiently broad to adequately assess the suitability of the indoor air quality for all individuals, particularly those who are extremely sensitive to certain chemical and/or biological substances or for those individuals with immune system deficiencies. Although not expected, if persons occupying or passing through the 9<sup>th</sup> Floor do experience non-specific ill effects of unknown etiology, then those affected should be referred to a medical professional in order to determine or specify the possible cause(s) of such reactions. If more information becomes available, further investigation and air monitoring may be warranted.

### HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

Kenny K. Hsi, CIH  
Technical Director

Date: August 22, 2008

Brian P. Daly, CIH, PE  
President

Date: August 22, 2008

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

## APPENDIX A



TABLE 20802001-135  
AIRBORNE TOTAL FUNGI RESULTS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 22 AND 28, 2008

Page 1

Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20802001- TM01CCME	20802001- TM02CCME	20802001- TM03CCME	20802001- TM04CCME
SAMPLING LOCATION/ACTIVITIES	Columns K22 area; about two feet east of Cubicle 078; within ceiling plenum/ Sampling activities only	About two feet south of Column K20; approximately four feet east of Cubicle 066; within ceiling plenum/Sampling activities only	Column K18 area; Cubicle 048; northeastern corner; within ceiling plenum/ Sampling activities only	Column L18 area; Cubicle 006; about center; within ceiling plenum/Sampling activities only
DATE	02-22-08	02-22-08	02-22-08	02-22-08
START/STOP	11:20:00/11:25:00	11:30:00/11:35:00	11:40:00/11:45:00	11:50:00/11:55:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		213	107	
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	53			107
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	13	27	<13
Background particulates*	3+	3+	3+	3+
TOTAL**	53	213	107	107

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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TABLE 20802001-135  
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9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 22 AND 28, 2008

Page 2

### Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20802001- TM05CCME	20802001- TM06CCME	20802001- TM07CCME	20802001- TM08CCME
SAMPLING LOCATION/ACTIVITIES	Column N18 area; Cubicle 001; about center; within ceiling plenum/Sampling activities only	Column M22 area; Cubicle 083; within ceiling plenum/ Sampling activities only	Column N21 area; Cubicle 117; within ceiling plenum/ Sampling activities only	Column N19 area; Cubicle 135; within ceiling plenum/ Sampling activities only
DATE	02-22-08	02-22-08	02-22-08	02-22-08
START/STOP	12:00:00/12:05:00	12:44:00/12:49:00	12:55:00/13:00:00	13:06:00/13:11:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores				
Aureobasidium				
Basidiospores	53			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	547	107		107
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown			13	
Penicillium/Aspergillus types		53		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)			160	
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	13	13	<13
Background particulates*	3+	3+	3+	3+
<b>TOTAL**</b>	600	160	173	107

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 22 AND 28, 2008

Page 3

Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20802001-TM89OUTME	20802001-TM90ME	20802001-TM91ME	20802001-TM92ME
<b>SAMPLING LOCATION/ACTIVITIES</b>	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	Column K22 area; about two feet west of Cubicle 060; approximately five feet above floor/Normal office activities	Column K21; Cubicle 062; southeastern corner; approximately five feet above floor/Normal office activities	Column K20 area; about four feet north of Cubicle 054; approximately five feet above floor/Normal office activities
<b>DATE</b>	02-28-08	02-28-08	02-28-08	02-28-08
<b>START/STOP</b>	10:40:00/10:45:00	10:49:00/10:54:00	10:55:00/11:00:00	11:05:00/11:10:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores	480			
Aureobasidium				
Basidiospores	7,360			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	1,330		13	
Curvularia				
Epicoccum				
Nigrospora				
Oidium	13			
Other brown	13	13		
Other colorless	13			
Penicillium/Aspergillus types	107			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	27			
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	13	<13	<13
Background particulates*	2+	1+	2+	1+
<b>TOTAL**</b>	9,343	13	13	<13

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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9<sup>TH</sup> FLOOR  
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FEBRUARY 22 AND 28, 2008

Page 4

### Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20802001-TM93ME	20802001-TM94ME	20802001-TM95ME	20802001-TM96ME
SAMPLING LOCATION/ACTIVITIES	Column K19 area; about three feet north of Cubicle 038; approximately five feet above floor/Normal office activities	Column K19 area; about two feet south of Cubicle 050; approximately five feet above floor/Normal office activities	Column K18 area; about three feet west of Cubicle 009; approximately five feet above floor/Normal office activities	Column L18 area; about four feet east of Cubicle 011; approximately five feet above floor/Normal office activities
DATE	02-28-08	02-28-08	02-28-08	02-28-08
START/STOP	11:11:00/11:16:00	11:20:00/11:25:00	11:26:00/11:31:00	11:35:00/11:40:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrimum				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	1+	2+	2+	1+
TOTAL **	<13	<13	<13	<13

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

## APPENDIX A



TABLE 20802001-135  
AIRBORNE TOTAL FUNGI RESULTS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 22 AND 28, 2008

Page 5

### Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20802001-TM97ME	20802001-TM98ME	20802001-TM99ME	20802001-TM100ME
<b>SAMPLING LOCATION/ACTIVITIES</b>	Column M18 area; about two feet south of Cubicle 153; approximately five feet above floor/Normal office activities	Column N18; about six feet south of Cubicle 136; approximately five feet above floor/Normal office activities	Column N19 area; about two feet south of Cubicle 134; approximately five feet above floor/Normal office activities	Column N20 area; Cubicle 118; northeastern corner; approximately five feet above floor/Normal office activities
<b>DATE</b>	02-28-08	02-28-08	02-28-08	02-28-08
<b>START/STOP</b>	11:45:00/11:50:00	13:00:00/13:05:00	13:10:00/13:15:00	13:17:00/13:22:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		40	120	
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	2+	1+	1+	2+
<b>TOTAL **</b>	<13	40	120	<13

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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## APPENDIX A



TABLE 20802001-135  
AIRBORNE TOTAL FUNGI RESULTS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 22 AND 28, 2008

Page 6

Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20802001-TM101ME	20802001-TM102ME	20802001-TM103ME	20802001-TM104ME
<b>SAMPLING LOCATION/ACTIVITIES</b>	Column N21 area; Cubicle 121; northwestern corner; approximately five feet above floor/Normal office activities	Column N21 area; between Cubicle 099 and 100; about center; approximately five feet above floor/Normal office activities	Column N22 area; about four feet east of Cubicle 086; approximately five feet above floor/Normal office activities	Column M22 area; Cubicle 083; about center; approximately five feet above floor/Normal office activities
<b>DATE</b>	02-28-08	02-28-08	02-28-08	02-28-08
<b>START/STOP</b>	13:25:00/13:30:00	13:35:00/13:40:00	13:45:00/13:50:00	13:55:00/14:00:00
<b>SAMPLE TIME</b>	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Aureobasidium				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	27			13
Curvularia				
Epicoccum				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background particulates*	1+	2+	2+	2+
<b>TOTAL **</b>	27	<13	<13	13

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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450 N Street  
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## APPENDIX A



TABLE 20802001-135  
AIRBORNE TOTAL FUNGI RESULTS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 22 AND 28, 2008

Page 7

### Results reported in spores per cubic meter of air (spores/M<sup>3</sup>)

SAMPLE NUMBER	20802001-TM105ME	20802001-TM106OUTME		
<b>SAMPLING LOCATION/ACTIVITIES</b>	Column L22 area; Cubicle 076; southeastern corner; approximately five feet above floor/Normal office activities	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank	This column intentionally left blank
<b>DATE</b>	02-28-08	02-28-08		
<b>START/STOP</b>	14:01:00/14:06:00	14:10:00/14:15:00		
<b>SAMPLE TIME</b>	5 minutes	5 minutes		
Alternaria		27		
Arthrimum				
Ascospores		213		
Aureobasidium				
Basidiospores		7,250		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	53	747		
Curvularia				
Epicoccum				
Nigrospora				
Oidium				
Other brown		27		
Penicillium/Aspergillus types		213		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys				
Torula				
Ulocladium				
Hyphal fragments	<13	27		
Background particulates*	1+	3+		
<b>TOTAL**</b>	53	8,490		

Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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## APPENDIX A



TABLE 20802001-136  
AIRBORNE VIABLE FUNGI RESULTS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 28, 2008

Page 1

### Results reported in colony forming units per cubic meter of air (CFU/M<sup>3</sup>)

SAMPLE NUMBER	20802001-VM39OUTME	20802001-VM40ME	20802001-VM41ME	20802001-VM42ME
<b>SAMPLING LOCATION/ACTIVITIES</b>	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	Column K22 area; about two feet west of Cubicle 060; approximately five feet above floor/Normal office activities	Column K19 area; about three feet north of Cubicle 038; approximately five feet above floor/Normal office activities	Column K18 area; about three feet west of Cubicle 009; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	10:41:00/10:43:00	10:52:00/10:54:00	11:17:00/11:19:00	11:32:00/11:34:00
<b>SAMPLE TIME</b>	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus fumigatus				
Aspergillus niger				
Aspergillus versicolor				
Aureobasidium				
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	141	35	18	
Curvularia				
Epicoccum				
Nigrospora				
Memnoniella				
Myrothecium				
Non-sporulating fungi				
Others				
Paecilomyces				
Penicillium				
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Trichoderma	18			
Ulocladium				
Yeasts		18		
<b>TOTAL</b>	159	53	18	<18

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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Sacramento, California 94279

## APPENDIX A



TABLE 20802001-136  
AIRBORNE VIABLE FUNGI RESULTS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBUARY 28, 2008

Page 2

### Results reported in colony forming units per cubic meter of air (CFU/M<sup>3</sup>)

SAMPLE NUMBER	20802001-VM43ME	20802001-VM44ME	20802001-VM45ME	20802001-VM46ME
<b>SAMPLING LOCATION/ACTIVITIES</b>	Column M18 area; about two feet south of Cubicle 153; approximately five feet above floor/Normal office activities	Column N18; about six feet south of Cubicle 136; approximately five feet above floor/Normal office activities	Column N21 area; between Cubicle 099 and 100; about center; approximately five feet above floor/Normal office activities	Column N22 area; about four feet east of Cubicle 086; approximately five feet above floor/Normal office activities
<b>START/STOP</b>	11:51:00/11:53:00	13:06:00/13:08:00	13:41:00/13:43:00	13:51:00/13:53:00
<b>SAMPLE TIME</b>	2 minutes	2 minutes	2 minutes	2 minutes
Acremonium				
Alternaria				
Aspergillus flavus				
Aspergillus fumigatus		18		
Aspergillus niger				
Aspergillus versicolor				
Aureobasidium				
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				18
Curvularia				
Epicoccum				
Nigrospora				
Memnoniella				
Myrothecium				
Non-sporulating fungi				
Others				
Paecilomyces				
Penicillium				18
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Trichoderma				
Ulocladium				
Yeasts				
<b>TOTAL</b>	<18	18	<18	36

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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450 N Street  
Sacramento, California 94279

## APPENDIX A



TABLE 20802001-136  
AIRBORNE VIABLE FUNGI RESULTS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBUARY 28, 2008

Page 3

### Results reported in colony forming units per cubic meter of air (CFU/M<sup>3</sup>)

SAMPLE NUMBER	20802001-VM47OUTME			
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 25 feet east of building; approximately five feet above ground/Normal outdoor activities	This column intentionally left blank	This column intentionally left blank	This column intentionally left blank
START/STOP	14:16:00/14:18:00			
SAMPLE TIME	2 minutes			
Acremonium				
Alternaria	18			
Aspergillus flavus				
Aspergillus niger				
Aspergillus other				
Aspergillus versicolor				
Aureobasidium	18			
Beauveria				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	389			
Curvularia				
Epicoccum	18			
Nigrospora				
Memnoniella				
Myrothecium				
Non-sporulating fungi				
Others				
Paecilomyces				
Penicillium	18			
Phoma/coelomycetes				
Sporobolomyces				
Stachybotrys				
Trichoderma				
Ulocladium				
Yeasts				
<b>TOTAL</b>	461			

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

## APPENDIX A



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**TABLE 20802001-137  
SURFACE FUNGAL GROWTH POTENTIALS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 20 AND 22, 2008**

Page 1

DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
02-20-08	20802001-TL129ME	Column K22 area; Cubicle 074; southern cubicle partition; about center; from top horizontal surface	Scant	None	None	None	Background
02-20-08	20802001-TL130ME	Column K21 area; Cubicle 062; southern cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background
02-20-08	20802001-TL131ME	Column K20 area; Cubicle 054; northern cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background
02-20-08	20802001-TL132ME	Column K19 area; Cubicle 045; southern cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background
02-20-08	20802001-TL133ME	Column K21 area; Cubicle 067; northern cubicle partition; about center; from top horizontal surface	Scant	None	None	None	Background
02-20-08	20802001-TL134ME	Column K20 area; Cubicle 041; northern cubicle partition; about center; from top horizontal surface	Scant	None	None	None	Background
02-20-08	20802001-TL135ME	Column K19 area; Cubicle 029; southern cubicle partition; about center; from top horizontal surface	Scant	None	None	None	Background
02-20-08	20802001-TL136ME	Column K18 area; Cubicle 034; eastern cubicle partition; about center; from top horizontal surface	Scant	None	None	None	Background
02-20-08	20802001-TL137ME	Column L18 area; Cubicle 007; western cubicle partition; about center; from top horizontal surface	Scant	None	None	None	Background
02-20-08	20802001-TL138ME	Column M18 area; Cubicle 003; western cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background
02-20-08	20802001-TL139ME	Column N18 area; Cubicle 150; eastern cubicle partition; about center; from top horizontal surface	Scant	None	None	None	Background
02-20-08	20802001-TL140ME	Column N19 area; Cubicle 140; northern cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background

\*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

\*\*Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

## APPENDIX A



**CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279**

**TABLE 20802001-137  
SURFACE FUNGAL GROWTH POTENTIALS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 20 AND 22, 2008**

Page 2

DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
02-20-08	20802001-TL141ME	Column N20 area; Cubicle 130; southern cubicle partition; about center; from top horizontal surface	Moderate	Very few	None	None	Background
02-20-08	20802001-TL142ME	Column N21 area; Cubicle 122; northern cubicle partition; about center; from top horizontal surface	Scant	None	None	None	Background
02-20-08	20802001-TL143ME	Column N21 area; Cubicle 105; northern cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background
02-20-08	20802001-TL144ME	Column N20 area; Cubicle 118; eastern cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background
02-20-08	20802001-TL145ME	Column N19 area; Cubicle 144; northern cubicle partition; about center; from top horizontal surface	Light	Very few	None	None	Background
02-20-08	20802001-TL146ME	Column N22 area; Cubicle 111; western cubicle partition; about center; from top horizontal surface	Light	None	None	None	Background
02-20-08	20802001-TL147ME	Column M22 area; Cubicle 084; eastern cubicle partition wall; about center; from top horizontal surface	Light	Very few	None	None	Background
02-20-08	20802001-TL148ME	Column L22 area; Cubicle 090; western cubicle partition wall; about center; from top horizontal surface	Moderate	Very few	None	None	Background
02-22-08	20802001-S01ME	Column K22 area; Cubicle 078; ceiling; from reverse side of HVAC supply air register	Moderate	Very few	<1+ <i>Cladosporium</i> species (spores, hyphae)	None	Minimal fungal growth
02-22-08	20802001-S02ME	Column K20 area; print station; ceiling; from reverse side of HVAC supply air register	Moderate	None	2+ colorless spores typical of <i>Penicillium</i> / <i>Aspergillus</i> (spores)	None	Fungal growth
02-22-08	20802001-S03ME	Column K18 area; Cubicle 048; ceiling; from reverse side of HVAC supply air register	Moderate	Few	None	None	Background
02-22-08	20802001-S04ME	Column L18 area; Cubicle 006; ceiling; from reverse side of HVAC supply air register	Moderate	Very few	1+ colorless spores typical of <i>Penicillium</i> / <i>Aspergillus</i> (spores)	None	Fungal growth

\*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

\*\*Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

## APPENDIX A



TABLE 20802001-137  
SURFACE FUNGAL GROWTH POTENTIALS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 20 AND 22, 2008

Page 3

DATE	SAMPLE NUMBER	SAMPLING LOCATION	AMORPHOUS DEBRIS	MISCELLANEOUS FUNGI/POLLEN*	FUNGI SEEN WITH UNDERLYING MYCELIAL AND/OR SPORULATING STRUCTURES**	OTHER COMMENTS	GENERAL IMPRESSION
02-22-08	20802001-S05ME	Column N18 area; Cubicle 001; ceiling; from reverse side of HVAC supply air register	Scant	Very few	None	None	Background
02-22-08	20802001-S06ME	Column M22 area; Cubicle 083; ceiling; from reverse side of HVAC air register	Moderate	Variety	None	None	Background
02-22-08	20802001-S07ME	Column N21 area; Cubicle 117; ceiling; ;from reverse side of HVAC supply air register	Heavy	Variety	<1+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Minimal fungal growth
02-22-08	20802001-S08ME	Column N19 area; Cubicle135; ceiling; from reverse side of HVAC supply air register	Moderate	Variety	None	None	Background

\*Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating (indicative of normal trapping).

\*\*Quantities of fungi are graded (from least to greatest) as <1+ to 4+.

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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## APPENDIX A



**TABLE 20802001-138  
AIRBORNE FIBERS RESULTS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
MARCH 12, 2008**

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (f/cc)	PEL (f/cc)
Area Sample	Column K22 area; ceiling; about one foot south of Cubicle 072; approximately six feet above floor/Normal office activities	N/A	20803001-F15ME	8:43/ 17:04	501 minutes	Fibers	<b>0.007</b>	0.1
Area Sample	Column K20 area; ceiling; about three feet east of Cubicle 065; approximately six feet above floor/Normal office activities	N/A	20803001-F16ME	8:46/ 17:04	498 minutes	Fibers	<b>0.005</b>	0.1
Area Sample	Column K18 area; ceiling; about ten feet south of Cubicle 033; approximately six feet above floor/Normal office activities;	N/A	20803001-F17ME	8:49/ 17:05	496 minutes	Fibers	<b>0.005</b>	0.1
Area Sample	Column; N18 area; ceiling; about three feet west of Cubicle 151; approximately six feet above floor/Normal office activities;	N/A	20803001-F18ME	9:05/ 17:05	480 minutes	Fibers	<b>0.007</b>	0.1
Area Sample	Column N20 area ;ceiling; about two feet east of Cubicle 118; approximately six feet above floor/Normal office activities	N/A	20803001-F19ME	9:06/ 17:17	491 minutes	Fibers	<b>0.01</b>	0.1
Area Sample	Column N22 area; ceiling; about three feet south of Cubicle 125; approximately six feet above floor/Normal office activities	N/A	20803001-F20ME	9:10/ 17:18	488 minutes	Fibers	<b>0.006</b>	0.1
Area Sample	Between Column L22 and M22 area; ceiling; about one foot east of Cubicle 082; approximately six feet above floor/Normal office activities	N/A	20803001-F21ME	9:18/ 17:19	481 minutes	Fibers	<b>0.005</b>	0.1
Blank	N/A	N/A	20803001- F46BLANKME	N/A	N/A	Fibers	All data blank corrected	N/A

### LEGEND

PPE: Personal protective equipment

N/A: Not applicable

PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

<: Less than

f/cc: Fibers per cubic centimeter of air

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

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Sacramento, California 94279

## APPENDIX A



**TABLE 20802001-139**  
**AIRBORNE TOTAL DUST RESULTS**  
**9<sup>TH</sup> FLOOR**  
**SACRAMENTO, CALIFORNIA**  
**FEBRUARY 27, 2008**

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/M <sup>3</sup> )	PEL (mg/M <sup>3</sup> )
Area Sample	Column K22; Cubicle 077; southwestern corner; approximately six feet above floor/Normal office activities	N/A	20802001-TD21ME	8:22/ 14:48	386 minutes	Total dust	<0.13	10
Area Sample	Column K21 area; Cubicle 061; southeastern corner; approximately six feet above floor/Normal office activities	N/A	20802001-TD22ME	8:40/ 14:50	370 minutes	Total dust	<0.14	10
Area Sample	Column K20 area; between Cubicle 026 and 041; approximately six feet above floor/Normal office activities	N/A	20802001-TD23ME	8:41/ 15:02	381 minutes	Total dust	<0.13	10
Area Sample	Column K18 area; about four feet southeast of print station; approximately six feet above floor/Normal office activities	N/A	20802001-TD24ME	8:46/ 15:04	378 minutes	Total dust	<0.13	10
Area Sample	Column L18 area; Cubicle 007; southwestern corner; approximately six feet above floor/Normal office activities	N/A	20802001-TD25ME	8:53/ 15:09	376 minutes	Total dust	<0.13	10
Area Sample	Column M18 area; between Cubicle 013 and 154; approximately six feet above floor/Normal office activities	N/A	20802001-TD26ME	8:58/ 15:11	373 minutes	Total dust	<0.13	10
Area Sample	Column N19 area; Cubicle 138; northwestern corner; approximately six feet above floor/Normal office activities	N/A	20802001-TD27ME	9:04/ 15:12	368 minutes	Total dust	<0.14	10
Area Sample	Column N20 area; about three feet east of print station; approximately six feet above floor/Normal office activities	N/A	20802001-TD28ME	9:09/ 15:15	366 minutes	Total dust	<0.14	10
Area Sample	Column N22 area; about three feet northwest of print station approximately six feet above floor/Normal office activities	N/A	20802001-TD29ME	9:13/ 15:18	365 minutes	Total dust	<0.14	10
Blank	N/A	N/A	20803001-TD102BLKME	N/A	N/A	Total dust	All data blank corrected	N/A

### LEGEND

PPE: Personal protective equipment

N/A: Not applicable

PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

<: Less than

mg/M<sup>3</sup>: Milligrams per cubic meter

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## APPENDIX A



TABLE 20802001-140  
MICROBIAL VOLATILE ORGANIC COMPOUNDS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
MARCH 26, 2008

Page 1

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/M <sup>3</sup> )	PEL (mg/M <sup>3</sup> )
Area Sample	About six feet south of Column K20; approximately six feet above floor/Normal office activities	N/A	20803001- M17JL	11:29/ 13:31	122 minutes	3-Methylfuran 2-Methyl-1-propanol 1-Butanol 3-Methyl-2-butanol 2-Pentanol 3-Methyl-2-butanol Methyl disulfide Ethyl isobutyrate 2-Hexanone 2-Heptanone 5-Methyl-3-heptanone 1-Octen-3-ol 3-Octanone 3-Octanol 2-Pentylfuran 2-Octen-1-ol 2-Methoxy-3-1(methylethyl) pyrazine 2-Nonanone Fenchone 2-Methyl-isoborneol a-Terpineol Borneol Geosmin Thujopsene	nd nd 401 x10 <sup>-6</sup> nd nd nd nd nd 103 x10 <sup>-6</sup> 158 x10 <sup>-6</sup> nd nd nd nd nd nd nd nd nd nd nd nd nd nd nd nd nd	N/A N/A 300 N/A N/A N/A N/A N/A 410 468 130 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

### LEGEND

PPE: Personal protective equipment  
N/A: Not applicable  
mg/M<sup>3</sup>: Milligrams per cubic meter

<: Less than  
PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

## APPENDIX A



TABLE 20802001-140  
MICROBIAL VOLATILE ORGANIC COMPOUNDS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
MARCH 26, 2008

Page 2

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/M <sup>3</sup> )	PEL (mg/M <sup>3</sup> )
Area Sample	Column L18 area; Cubicle 006; about center; approximately six feet above floor/Normal office activities	N/A	20803001- M18JL	11:45/ 13:46	121 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	360 x10 <sup>-6</sup>	300
						3-Methyl-2-butanol	nd	N/A
						2-Pentanol	nd	N/A
						3-Methyl-2-butanol	nd	N/A
						Methyl disulfide	nd	N/A
						Ethyl isobutyrate	nd	N/A
						2-Hexanone	105 x10 <sup>-6</sup>	410
						2-Heptanone	208 x10 <sup>-6</sup>	468
						5-Methyl-3-heptanone	nd	130
						1-Octen-3-ol	nd	N/A
						3-Octanone	nd	N/A
						3-Octanol	nd	N/A
						2-Pentylfuran	nd	N/A
						2-Octen-1-ol	nd	N/A
						2-Methoxy-3-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
						a-Terpineol	nd	N/A
						Borneol	nd	N/A
						Geosmin	nd	N/A
						Thujopsene	nd	N/A

### LEGEND

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N/A: Not applicable  
mg/M<sup>3</sup>: Milligrams per cubic meter

<: Less than  
PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

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**CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279**

## APPENDIX A



**TABLE 20802001-140**  
**MICROBIAL VOLATILE ORGANIC COMPOUNDS**  
**9<sup>TH</sup> FLOOR**  
**SACRAMENTO, CALIFORNIA**  
**MARCH 26, 2008**

Page 3

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/M <sup>3</sup> )	PEL (mg/M <sup>3</sup> )
Area Sample	About six feet north of Column N20; approximately six feet above floor/Normal office activities	N/A	20803001- M19JL	11:49/ 13:50	121 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	537 x10 <sup>-6</sup>	300
						3-Methyl-2-butanol	nd	N/A
						2-Pentanol	nd	N/A
						3-Methyl-2-butanol	nd	N/A
						Methyl disulfide	nd	N/A
						Ethyl isobutyrate	nd	N/A
						2-Hexanone	76 x10 <sup>-6</sup>	410
						2-Heptanone	198 x10 <sup>-6</sup>	468
						5-Methyl-3-heptanone	nd	130
						1-Octen-3-ol	nd	N/A
						3-Octanone	nd	N/A
						3-Octanol	nd	N/A
						2-Pentylfuran	nd	N/A
						2-Octen-1-ol	nd	N/A
						2-Methoxy-3-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
						a-Terpineol	nd	N/A
						Borneol	nd	N/A
						Geosmin	nd	N/A
						Thujopsene	nd	N/A

LEGEND

PPE: Personal protective equipment  
N/A: Not applicable  
mg/M<sup>3</sup>: Milligrams per cubic meter

<: Less than  
 PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

## APPENDIX A



TABLE 20802001-140  
MICROBIAL VOLATILE ORGANIC COMPOUNDS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
MARCH 26, 2008

Page 4

NAME/ REFERENCE	LOCATION/ ACTIVITIES	PPE USED	SAMPLE NUMBER	START/ STOP	SAMPLE TIME	CONTAMINANT	RESULTS (mg/M <sup>3</sup> )	PEL (mg/M <sup>3</sup> )
Area Sample	Column M22 area; about one foot west of Cubicle 088; approximately six feet above floor/Normal office activities	N/A	20803001-M20JL	11:52/ 13:53	121 minutes	3-Methylfuran	nd	N/A
						2-Methyl-1-propanol	nd	N/A
						1-Butanol	500 x10 <sup>-6</sup>	300
						3-Methyl-2-butanol	nd	N/A
						2-Pentanol	nd	N/A
						3-Methyl-2-butanol	nd	N/A
						Dimethyl disulfide	nd	N/A
						Ethyl isobutyrate	nd	N/A
						2-Hexanone	69 x10 <sup>-6</sup>	410
						2-Heptanone	115 x10 <sup>-6</sup>	468
						5-Methyl-3-heptanone	nd	130
						1-Octen-3-ol	nd	N/A
						3-Octanone	nd	N/A
						3-Octanol	nd	N/A
						2-Pentylfuran	nd	N/A
						2-Octen-1-ol	nd	N/A
						2-Methoxy-3-1(methylethyl) pyrazine	nd	N/A
						2-Nonanone	nd	N/A
						Fenchone	nd	N/A
						2-Methyl-isoborneol	nd	N/A
						a-Terpineol	nd	N/A
						Borneol	nd	N/A
						Geosmin	nd	N/A
						Thujopsene	nd	N/A

### LEGEND

PPE: Personal protective equipment  
N/A: Not applicable  
mg/M<sup>3</sup>: Milligrams per cubic meter

<: Less than  
PEL: Cal-OSHA 8-hour time-weighted average permissible exposure limit

# HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

CLIENT: California State Board of Equalization  
450 N Street  
Sacramento, California 94279

## APPENDIX A



TABLE 20802001-141  
DIRECT-READING RESULTS  
9<sup>TH</sup> FLOOR  
SACRAMENTO, CALIFORNIA  
FEBRUARY 20, 2008

LOCATION/SITE ACTIVITIES	SAMPLE TIME	CONTAMINANT	RESULTS (ppm)	COMMENTS
Column K22 area; about five feet east of Cubicle 078; approximately five feet above floor/Normal office activities	15:30/15:33	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	
Column K18 area; about five feet north of Cubicle 048; approximately five feet above floor/Normal office activities	15:35/15:38	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	
Column N18 area; about five feet west of Cubicle 001; approximately five feet above floor/Normal office activities	15:45/15:48	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	
Column N22 area; about five feet south of Cubicle 125; approximately five feet above floor/Normal office activities	15:55/15:58	Volatile Organic Compounds	ND < 0.1	N/A
		Ozone	ND < 0.05	

### LEGEND

ND: Not detected  
<: Less than

N/A: Not applicable  
ppm: Parts per million



## EMLab P&K

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Report for:

**Mr. Wes Frey**  
**Hygiene Technologies International, Inc.: Northern California**  
3127 Bowen Island Street  
West Sacramento, CA 95691

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Regarding:      Project: 20802001  
                     EML ID: 394505

Approved by:

Lab Manager  
Magzoub Ismail

Dates of Analysis:  
Spore trap analysis: 03-05-2008

Project SOPs: Spore trap analysis (I100000)

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This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	20802001-TM89outME		20802001-TM90ME		20802001-TM91ME		20802001-TM92ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1732124-1		1732125-1		1732126-1		1732127-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*	9	480						
Aureobasidium								
Basidiospores*	138	7,360						
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	25	1,330			1	13		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium	1	13						
Other brown	1	13	1	13				
Other colorless	1	13						
Penicillium/Aspergillus types†	2	107						
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	2	27						
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		1+		2+		1+	
Hyphal fragments/m3	< 13		13		< 13		< 13	
Pollen/m3	160		< 13		< 13		< 13	
Skin cells (1-4+)	None		< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75	
<b>TOTAL SPORE/m3</b>		<b>9,343</b>		<b>13</b>		<b>13</b>		<b>&lt; 13</b>

**Comments:**

\* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	20802001-TM93ME		20802001-TM94ME		20802001-TM95ME		20802001-TM96ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1732128-1		1732129-1		1732130-1		1732131-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		2+		2+		1+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75	
<b>TOTAL SPORE/m3</b>		< 13		< 13		< 13		< 13

**Comments:**

\* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

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Northern California  
C/O: Mr. Wes Frey  
Re: 20802001

Date of Sampling: 02-28-2008  
Date of Receipt: 02-29-2008  
Date of Report: 03-05-2008

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	20802001-TM97ME		20802001-TM98ME		20802001-TM99ME		20802001-TM100ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1732132-1		1732133-1		1732134-1		1732135-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium			3	40	9	120		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		1+		1+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75	
<b>TOTAL SPORE/m3</b>		< 13		40		120		< 13

**Comments:**

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† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	20802001-TM101ME		20802001-TM102ME		20802001-TM103ME		20802001-TM104ME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1732136-1		1732137-1		1732138-1		1732139-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrini								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	2	27					1	13
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Oidium								
Other brown								
Other colorless								
Penicillium/Aspergillus types†								
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		13		13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75	
<b>TOTAL SPORE/m3</b>		27		< 13		< 13		13

**Comments:**

\* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	20802001-TM105ME		20802001-TM106outME	
Comments (see below)	None		None	
Lab ID-Version‡:	1732140-1		1732141-1	
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			2	27
Arthrinium				
Ascospores*			4	213
Aureobasidium				
Basidiospores*			136	7,250
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium	4	53	14	747
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown			2	27
Other colorless				
Penicillium/Aspergillus types†			4	213
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*			1	13
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	1+		3+	
Hyphal fragments/m3	< 13		27	
Pollen/m3	13		93	
Skin cells (1-4+)	< 1+		< 1+	
Sample volume (liters)	75		75	
<b>TOTAL SPORE/m3</b>		<b>53</b>		<b>8,490</b>

**Comments:**

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† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wes Frey  
Re: 20802001

Date of Sampling: 02-28-2008  
Date of Receipt: 02-29-2008  
Date of Report: 03-05-2008

**MoldRANGE™: Extended Outdoor Comparison****Outdoor Location: 20802001-TM89outME**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: February				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
<b>Generally able to grow indoors*</b>									
Alternaria	-	7	19	190	35	7	27	230	60
Bipolaris/Drechslera group	-	7	13	160	10	7	13	120	14
Chaetomium	-	7	13	130	7	7	13	110	19
Cladosporium	1,330	27	290	4,300	89	53	640	6,500	98
Curvularia	-	7	13	340	8	7	13	210	7
Nigrospora	-	7	13	140	8	7	13	170	8
Other brown	13	7	13	80	33	7	13	80	37
Other colorless	13	7	13	120	7	7	13	93	7
Penicillium/Aspergillus types	107	27	160	1,700	84	40	210	2,500	89
Stachybotrys	-	7	13	370	3	7	13	330	5
Torula	-	7	13	230	5	7	13	150	13
<b>Seldom found growing indoors**</b>									
Ascospores	480	13	110	2,200	67	13	110	1,800	73
Basidiospores	7,360	13	270	8,600	87	13	270	6,900	95
Oidium	13	7	13	170	9	7	13	200	20
Rusts	-	7	13	240	11	7	13	270	29
Smuts, Periconia, Myxomycetes	27	7	27	270	53	8	40	480	71
<b>TOTAL SPORES/M3</b>	9,343								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

\*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

\*\*These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldRANGE™: Extended Outdoor Comparison****Outdoor Location: 20802001-TM106outME**

Fungi Identified	Outdoor data	Typical Outdoor Data by Date†				Typical Outdoor Data by Location‡			
		Month: February				State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
<b>Generally able to grow indoors*</b>									
Alternaria	27	7	19	190	35	7	27	230	60
Bipolaris/Drechslera group	-	7	13	160	10	7	13	120	14
Chaetomium	-	7	13	130	7	7	13	110	19
Cladosporium	747	27	290	4,300	89	53	640	6,500	98
Curvularia	-	7	13	340	8	7	13	210	7
Nigrospora	-	7	13	140	8	7	13	170	8
Other brown	27	7	13	80	33	7	13	80	37
Other colorless	-	7	13	120	7	7	13	93	7
Penicillium/Aspergillus types	213	27	160	1,700	84	40	210	2,500	89
Stachybotrys	-	7	13	370	3	7	13	330	5
Torula	-	7	13	230	5	7	13	150	13
<b>Seldom found growing indoors**</b>									
Ascospores	213	13	110	2,200	67	13	110	1,800	73
Basidiospores	7,250	13	270	8,600	87	13	270	6,900	95
Oidium	-	7	13	170	9	7	13	200	20
Rusts	-	7	13	240	11	7	13	270	29
Smuts, Periconia, Myxomycetes	13	7	27	270	53	8	40	480	71
<b>TOTAL SPORES/M3</b>	8,490								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

\*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

\*\*These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSTAT™: Supplementary Statistical Spore Trap Report****Outdoor Summary: 20802001-TM89outME:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				480	13 - 160 - 4,200	76
Basidiospores				7,360	13 - 320 - 14,000	92
Cladosporium				1,330	40 - 530 - 8,500	95
Oidium				13	7 - 13 - 230	15
Other brown				13	7 - 13 - 93	35
Other colorless				13	7 - 13 - 140	7
Penicillium/Aspergillus types				107	27 - 210 - 2,600	85
Smuts, Periconia, Myxomycetes				27	7 - 40 - 760	70
<b>Total</b>				9,343		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

**Indoor Samples****Location: 20802001-TM90ME**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.1190 Critical value: 0.6190 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Other brown		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>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**Location: 20802001-TM91ME**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5952 Critical value: 0.6190 Outside Similar: No	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSTAT™: Supplementary Statistical Spore Trap Report****Location:** 20802001-TM92ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A

**Location:** 20802001-TM93ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A

**Location:** 20802001-TM94ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A

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 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSTAT™: Supplementary Statistical Spore Trap Report****Location:** 20802001-TM95ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A

**Location:** 20802001-TM96ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A

**Location:** 20802001-TM97ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A

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**MoldSTAT™: Supplementary Statistical Spore Trap Report****Location:** 20802001-TM98ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5952 Critical value: 0.6190 Outside Similar: No	Score: 102 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				
Total				
				40
				40

**Location:** 20802001-TM99ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5952 Critical value: 0.6190 Outside Similar: No	Score: 107 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				
Total				
				120
				120

**Location:** 20802001-TM100ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				
				N/A

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 Date of Report: 03-05-2008

**MoldSTAT™: Supplementary Statistical Spore Trap Report****Location:** 20802001-TM101ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5952 Critical value: 0.6190 Outside Similar: No	Score: 101 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				27
<b>Total</b>				27

**Location:** 20802001-TM102ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				N/A

**Location:** 20802001-TM103ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
None Detected				N/A

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 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
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 Date of Report: 03-05-2008

**MoldSTAT™: Supplementary Statistical Spore Trap Report****Location:** 20802001-TM104ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5952 Critical value: 0.6190 Outside Similar: No	Score: 101 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				13
<b>Total</b>				13

**Location:** 20802001-TM105ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.5952 Critical value: 0.6190 Outside Similar: No	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
<b>Total</b>				53

\* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

\*\* An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

\*\*\* The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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**MoldSTAT™: Supplementary Statistical Spore Trap Report**









\*\*\*\* MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Date of Receipt: 02-29-2008  
Date of Report: 03-05-2008

**MoldSTAT™: Supplementary Statistical Spore Trap Report****Outdoor Summary: 20802001-TM106outME:**

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Alternaria				27	7 - 27 - 390	55
Ascospores				213	13 - 160 - 4,200	76
Basidiospores				7,250	13 - 320 - 14,000	92
Cladosporium				747	40 - 530 - 8,500	95
Other brown				27	7 - 13 - 93	35
Penicillium/Aspergillus types				213	27 - 210 - 2,600	85
Smuts, Periconia, Myxomycetes				13	7 - 40 - 760	70
<b>Total</b>				8,490		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

**Indoor Samples****Location: 20802001-TM90ME**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.1429 Critical value: 0.6786 Outside Similar: No	Score: 105 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Other brown		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>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**Location: 20802001-TM91ME**

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.5804 Critical value: 0.6786 Outside Similar: No	Score: 101 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSTAT™: Supplementary Statistical Spore Trap Report****Location:** 20802001-TM92ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A

**Location:** 20802001-TM93ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A

**Location:** 20802001-TM94ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A

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 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
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**MoldSTAT™: Supplementary Statistical Spore Trap Report****Location:** 20802001-TM95ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A

**Location:** 20802001-TM96ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A



**Location:** 20802001-TM97ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
<b>Species Detected</b>		<b>Spores/m3</b>		
		<100	1K	10K
				>100K
<b>None Detected</b>				N/A



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**MoldSTAT™: Supplementary Statistical Spore Trap Report****Location:** 20802001-TM98ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.5804 Critical value: 0.6786 Outside Similar: No	Score: 102 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Cladosporium				40
<b>Total</b>				40

**Location:** 20802001-TM99ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.5804 Critical value: 0.6786 Outside Similar: No	Score: 107 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Cladosporium				120
<b>Total</b>				120

**Location:** 20802001-TM100ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
<b>None Detected</b>				N/A

Client: Hygiene Technologies International, Inc.:  
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 Re: 20802001

Date of Sampling: 02-28-2008  
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 Date of Report: 03-05-2008

**MoldSTAT™: Supplementary Statistical Spore Trap Report****Location:** 20802001-TM101ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.5804 Critical value: 0.6786 Outside Similar: No	Score: 102 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
Cladosporium				
<b>Total</b>				

**Location:** 20802001-TM102ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
None Detected				

**Location:** 20802001-TM103ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K >100K
None Detected				

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 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
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 Date of Report: 03-05-2008

**MoldSTAT™: Supplementary Statistical Spore Trap Report****Location:** 20802001-TM104ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.5804 Critical value: 0.6786 Outside Similar: No	Score: 101 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				13
<b>Total</b>				13

**Location:** 20802001-TM105ME

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 15 Result: 5.9338 Critical value: 24.9958 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.5804 Critical value: 0.6786 Outside Similar: No	Score: 103 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
				>100K
Cladosporium				53
<b>Total</b>				53

\* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

\*\* An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

\*\*\* The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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**MoldSTAT™: Supplementary Statistical Spore Trap Report**

\*\*\*\* MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&K reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Outdoor Sample:** 20802001-TM89outME

Fungi Identified	Outdoor sample spores/m3				Raw count	Spores/m3
	<100	1K	10K	>100K		
<b>Generally able to grow indoors*</b>						
Alternaria					ND	< 13
Bipolaris/Drechslera group					ND	< 13
Chaetomium					ND	< 13
Cladosporium					25	1,330
Curvularia					ND	< 13
Nigrospora					ND	< 13
Other brown					1	13
Other colorless					1	13
Penicillium/Aspergillus types†					2	107
Stachybotrys					ND	< 13
Torula					ND	< 13
<b>Seldom found growing indoors**</b>						
Ascospores††					9	480
Basidiospores††					138	7,360
Oidium					1	13
Rusts					ND	< 13
Smuts, Periconia, Myxomycetes††					2	27
<b>Total</b>						<b>9,343</b>

**Location:** 20802001-TM90ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Other brown					1	13				105
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>13</b>				<b>Final MoldSCORE 105</b>

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM91ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	13				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>13</b>	<b>Final MoldSCORE</b>			<b>101</b>

**Location:** 20802001-TM92ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

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Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM93ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

**Location:** 20802001-TM94ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

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 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM95ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

**Location:** 20802001-TM96ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

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Date of Sampling: 02-28-2008  
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 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM97ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

**Location:** 20802001-TM98ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					3	40				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>40</b>	<b>Final MoldSCORE</b>			<b>102</b>

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 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM99ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					9	120				107
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>120</b>	<b>Final MoldSCORE</b>			<b>107</b>

**Location:** 20802001-TM100ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

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Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM101ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					2	27				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>27</b>	<b>Final MoldSCORE</b>			<b>101</b>

**Location:** 20802001-TM102ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

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Date of Sampling: 02-28-2008  
Date of Receipt: 02-29-2008  
Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM103ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE†			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

**Location:** 20802001-TM104ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE†			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	13				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>13</b>	<b>Final MoldSCORE</b>			<b>101</b>

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Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM105ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE†			
	<100	1K	10K	>100K			100	200	300	Score
Generally able to grow indoors*										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					4	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
Seldom found growing indoors**										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
Total						53	Final MoldSCORE 103			

\*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

\*\*These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

Date of Sampling: 02-28-2008  
Date of Receipt: 02-29-2008  
Date of Report: 03-05-2008

**Outdoor Sample:** 20802001-TM106outME

Client: Hygiene Technologies International, Inc.:  
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 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM91ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	13				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>13</b>	<b>Final MoldSCORE</b>			<b>101</b>

**Location:** 20802001-TM92ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

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 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM93ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE†			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

**Location:** 20802001-TM94ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE†			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM95ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

**Location:** 20802001-TM96ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM97ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

**Location:** 20802001-TM98ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					3	40				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>40</b>	<b>Final MoldSCORE</b>			<b>102</b>

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM99ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					9	120				107
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>120</b>	<b>Final MoldSCORE</b>			<b>107</b>

**Location:** 20802001-TM100ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM101ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					2	27				102
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>27</b>				
							<b>Final MoldSCORE</b>		<b>102</b>	

**Location:** 20802001-TM102ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>				
							<b>Final MoldSCORE</b>		<b>100</b>	

Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-28-2008  
 Date of Receipt: 02-29-2008  
 Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM103ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					ND	< 13				100
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>N/A</b>	<b>Final MoldSCORE</b>			<b>100</b>

**Location:** 20802001-TM104ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					1	13				101
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>13</b>	<b>Final MoldSCORE</b>			<b>101</b>

Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wes Frey  
Re: 20802001

Date of Sampling: 02-28-2008  
Date of Receipt: 02-29-2008  
Date of Report: 03-05-2008

**MoldSCORE™: Spore Trap Report****Location:** 20802001-TM105ME

Fungi Identified	Indoor sample spores/m3				Raw count	Spores/m3	MoldSCORE‡			
	<100	1K	10K	>100K			100	200	300	Score
<b>Generally able to grow indoors*</b>										
Alternaria					ND	< 13				100
Bipolaris/Drechslera group					ND	< 13				100
Chaetomium					ND	< 13				100
Cladosporium					4	53				103
Curvularia					ND	< 13				100
Nigrospora					ND	< 13				100
Penicillium/Aspergillus types†					ND	< 13				100
Stachybotrys					ND	< 13				100
Torula					ND	< 13				100
<b>Seldom found growing indoors**</b>										
Ascospores††					ND	< 13				100
Basidiospores††					ND	< 13				100
Rusts					ND	< 13				100
Smuts, Periconia, Myxomycetes††					ND	< 13				100
<b>Total</b>						<b>53</b>				<b>Final MoldSCORE 103</b>

\*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

\*\*These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

††Most of these spore types are not seen with culturable methods (Anderson sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.



## EMLab P&K

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Report for:

**Mr. Wes Frey**  
**Hygiene Technologies International, Inc.: Northern California**  
3127 Bowen Island Street  
West Sacramento, CA 95691

---

Regarding:      Project: 20802001  
                     EML ID: 394505

Approved by:

Lab Manager  
Magzoub Ismail

Dates of Analysis:  
Culturable air fungi (Incl. Asp spp.): 03-05-2008  
Spore trap analysis: 03-05-2008

Project SOPs: Culturable air fungi (Incl. Asp spp.) (I100002), Spore trap analysis (I100000)

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This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wes Frey  
Re: 20802001

Date of Sampling: 02-28-2008  
Date of Receipt: 02-29-2008  
Date of Report: 03-05-2008

**CULTURABLE AIR FUNGI REPORT**

Location:	20802001- VM39outME		20802001- VM40ME		20802001- VM41ME		20802001- VM42ME		20802001- VM43ME	
Comments (see below)	A		None		None		None		None	
Lab ID-Version†:	1732115-1		1732116-1		1732117-1		1732118-1		1732119-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium										
Alternaria										
Aspergillus flavus										
Aspergillus fumigatus										
Aspergillus nidulans										
Aspergillus niger										
Aspergillus ochraceus										
Aspergillus versicolor										
Aureobasidium										
Basidiomycetes										
Bipolaris/Drechslera group										
Botrytis										
Chaetomium										
Cladosporium	8	141	2	35	1	18				
Curvularia										
Epicoccum										
Fusarium										
Non-sporulating fungi										
Paecilomyces										
Penicillium										
Phoma										
Rhizopus										
Stachybotrys chartarum										
Trichoderma	1	18								
Ulocladium										
Yeasts			1	18						
Positive Hole	400		400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6		56.6	
<b>TOTAL CFU*/M3</b>		<b>159</b>		<b>53</b>		<b>18</b>		<b>&lt; 18</b>		<b>&lt; 18</b>

\* cfu = colony forming units

Positive hole correction chart used for all calculations

**Comments:**A) The sample was overgrown with a *Trichoderma* species which may have reduced or eliminated the presence of other fungi.

Note: Interpretation is left to the company and/or persons who conducted the field work. Variation is an inherent part of biological sampling.

The presence or absence of a few genera in small numbers should not be considered abnormal.

**NORMAL SPORE LEVELS:** Indoor spore levels usually average 30 to 80% of the outdoor spore level at the time of sampling, with the same general distribution of spore types. Filtered air, air-conditioned air, or air remote from outside sources may average 5 to 15% of the outside air at the time of sampling. (These percentages are guidelines, only. A major factor is the accessibility of outdoor air. A residence with open doors and windows and heavy foot traffic may average 95% of the outdoor level while high rise office buildings with little air exchange may average 2%. Dusty interiors may exceed 100% of the outdoors to some degree, but will still mirror the outdoor distribution of spore types.)

**PROBLEM INTERIORS:** A substantial increase of one or two spore types which are inconsistent with and non-reflective of the outside distribution of spore types is usually indicative of an indoor reservoir of mold growth.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

† A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wes Frey  
Re: 20802001

Date of Sampling: 02-28-2008  
Date of Receipt: 02-29-2008  
Date of Report: 03-05-2008

**CULTURABLE AIR FUNGI REPORT**

Location:	20802001-VM44ME		20802001-VM45ME		20802001-VM46ME		20802001-VM47outME	
Comments (see below)	None		None		None		None	
Lab ID-Version†:	1732120-1		1732121-1		1732122-1		1732123-1	
	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3	raw ct.	cfu*/m3
Acremonium								
Alternaria							1	18
Aspergillus flavus								
Aspergillus fumigatus	1	18						
Aspergillus nidulans								
Aspergillus niger								
Aspergillus ochraceus								
Aspergillus versicolor								
Aureobasidium							1	18
Basidiomycetes								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium					1	18	21	389
Curvularia								
Epicoccum							1	18
Fusarium								
Non-sporulating fungi								
Paecilomyces								
Penicillium					1	18	1	18
Phoma								
Rhizopus								
Stachybotrys chartarum								
Trichoderma								
Ulocladium								
Yeasts								
Positive Hole	400		400		400		400	
Sample volume (liters)	56.6		56.6		56.6		56.6	
<b>TOTAL CFU*/M3</b>		18		< 18		36		461

\* cfu = colony forming units

Positive hole correction chart used for all calculations

**Comments:**

Note: Interpretation is left to the company and/or persons who conducted the field work. Variation is an inherent part of biological sampling. The presence or absence of a few genera in small numbers should not be considered abnormal.

NORMAL SPORE LEVELS: Indoor spore levels usually average 30 to 80% of the outdoor spore level at the time of sampling, with the same general distribution of spore types. Filtered air, air-conditioned air, or air remote from outside sources may average 5 to 15% of the outside air at the time of sampling. (These percentages are guidelines, only. A major factor is the accessibility of outdoor air. A residence with open doors and windows and heavy foot traffic may average 95% of the outdoor level while high rise office buildings with little air exchange may average 2%. Dusty interiors may exceed 100% of the outdoors to some degree, but will still mirror the outdoor distribution of spore types.)

PROBLEM INTERIORS: A substantial increase of one or two spore types which are inconsistent with and non-reflective of the outside distribution of spore types is usually indicative of an indoor reservoir of mold growth.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

† A "Version" greater than 1 indicates amended data.



# HYGIENE TECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180  
Torrance, California 90503-1643  
(310) 370-8370  
(310) 370-2474 FAX  
www.hygienetech.com

## Request For Analysis

Project Number/Purchase Order: 20802001 Date Submitted: \_\_\_\_\_

Project Contact: Wes Fung Turnaround Required: Standard

Lab Destination: EWL Lab Contact: \_\_\_\_\_

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20802001-TM90ME	75L	Hydrocod	Total Mold Assessment
-TM91ME			
-TM92ME			
-TM93ME			
-TM94ME			
-TM95ME			
-TM96ME			
-TM97ME			
-TM98ME			
-TM99ME			
-TM100ME			
-TM101ME			
-TM102ME			
-TM103ME			
-TM104ME			

Special Instructions: \_\_\_\_\_

1. Sampled by: Makke En 2/28/08 12:00 Received by: SW 7/24/08 17:00

2. Relinquished by: SW 7/24/08 10:30 Received by: SW 7/24/08 10:30

3. Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_

Please include signature, date, and time

Lab Use Only:



3625 Del Amo Boulevard, Suite 180  
Torrance, California 90503-1643  
(310) 370-8370  
(310) 370-2474 FAX  
[www.hygienetech.com](http://www.hygienetech.com)

# Request For Analysis

LOS ANGELES • SACRAMENTO • ONTARIO • SAN DIEGO • FRESNO • NORFOLK • TORONTO • BEIJING



## EMLab P&K

Report for:

**Mr. Wes Frey**  
**Hygiene Technologies International, Inc.: Northern California**  
3127 Bowen Island Street  
West Sacramento, CA 95691

Regarding: Project: 20802001  
EML ID: 392858

Approved by:

Lab Manager  
Dr. Kamashwaran Ramanathan

Dates of Analysis:  
Direct microscopic exam (Qualitative): 02-29-2008  
Spore trap analysis: 02-29-2008

Project SOPs: Direct microscopic exam (Qualitative) (I100005), Spore trap analysis (I100000)

This coversheet is included with your report in order to comply with AIHA and ISO accreditation requirements.

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wes Frey  
Re: 20802001

Date of Sampling: 02-22-2008  
Date of Receipt: 02-26-2008  
Date of Report: 02-29-2008

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	20802001-TM01CCME		20802001-TM02CCME		20802001-TM03CCME		20802001-TM04CCME	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1725716-1		1725717-1		1725718-1		1725719-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*								
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium			4	213	2	107		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	1	53					2	107
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	< 13		13		27		< 13	
Pollen/m3	< 13		13		< 13		< 13	
Skin cells (1-4+)	1+		2+		1+		1+	
Sample volume (liters)	75		75		75		75	
<b>TOTAL SPORE/m3</b>		53		213		107		107

**Comments:**

\* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

‡ A "Version" greater than 1 indicates amended data.

Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wes Frey  
Re: 20802001

Date of Sampling: 02-22-2008  
Date of Receipt: 02-26-2008  
Date of Report: 02-29-2008

**SPORE TRAP REPORT: NON-VIABLE METHODOLOGY**

Location:	20802001-TM05CCME		20802001-TM06CCME		20802001-TM07CCME		20802001-TM08CCME	
Comments (see below)	A		None		None		None	
Lab ID-Version‡:	1725720-1		1725721-1		1725722-1		1725723-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*	1	53						
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	38	547	2	107			2	107
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown					1	13		
Other colorless								
Penicillium/Aspergillus types†			1	53				
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*					12	160		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	< 13		13		13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		3+		2+	
Sample volume (liters)	75		75		75		75	
<b>TOTAL SPORE/m3</b>		<b>600</b>		<b>160</b>		<b>173</b>		<b>107</b>

Comments: A) 37 of the raw count *Cladosporium* spores were present as a single clump.

\* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

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Client: Hygiene Technologies International, Inc.:  
 Northern California  
 C/O: Mr. Wes Frey  
 Re: 20802001

Date of Sampling: 02-22-2008  
 Date of Receipt: 02-26-2008  
 Date of Report: 02-29-2008

**DIRECT MICROSCOPIC EXAMINATION REPORT**

(Wet Mount)

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1725708-1: Swab sample 20802001-S01ME				
Moderate	Very few	< 1+ <i>Cladosporium</i> species (spores, hyphae)	None	Minimal mold growth
Lab ID-Version: 1725709-1: Swab sample 20802001-S02ME				
Moderate	None	2+ colorless spores typical of <i>Penicillium</i> / <i>Aspergillus</i> (spores)	None	Mold growth
Lab ID-Version: 1725710-1: Swab sample 20802001-S03ME				
Moderate	Few	None	None	Normal trapping
Lab ID-Version: 1725711-1: Swab sample 20802001-S04ME				
Moderate	Very few	1+ colorless spores typical of <i>Penicillium</i> / <i>Aspergillus</i> (spores)	None	Mold growth
Lab ID-Version: 1725712-1: Swab sample 20802001-S05ME				
Scant	Very few	None	None	Normal trapping
Lab ID-Version: 1725713-1: Swab sample 20802001-S06ME				
Moderate	Variety	None	None	Normal trapping
Lab ID-Version: 1725714-1: Swab sample 20802001-S07ME				
Heavy	Variety	< 1+ <i>Penicillium</i> species (spores, hyphae, conidiophores)	None	Minimal mold growth
Lab ID-Version: 1725715-1: Swab sample 20802001-S08ME				
Moderate	Variety	None	None	Normal trapping

‡ A "Version" greater than 1 indicates amended data.



# HYGIENE TECH

Hygiene Technologies International, Inc.

3625 Del Amo Boulevard, Suite 180  
Torrance, California 90503-1643  
(310) 370-8370  
(310) 370-2474 FAX  
www.hygienetech.com

## Request For Analysis

Project Number/Purchase Order: 20802001 Date Submitted: \_\_\_\_\_

Project Contact: Wes Frey Turnaround Required: standard

Lab Destination: EM lab Lab Contact: \_\_\_\_\_

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20802001-S01ME	N/A	swab	surface fungi ID qualitative
-S02ME	↓	↓	↓
-S03ME	↓	↓	↓
-S04ME	↓	↓	↓
-S05ME	↓	↓	↓
-S06ME	↓	↓	↓
-S07ME	↓	↓	↓
-S08ME	↓	↓	↓
-TMO1CCME	TSL	allergenco D	Total fungi ID
-TMO2CCME	↓	↓	↓
-TMO3CCME	↓	↓	↓
-TMO4CCME	↓	↓	↓
-TMO5CCME	↓	↓	↓
-TMO6CCME	↓	↓	↓
-TMO7CCME	↓	↓	↓
-TMO8CCME	↓	↓	↓

Special Instructions: \_\_\_\_\_

1. Sampled by: Makka EM 2/22/08

Received by: [Signature] 2/22/08 11:30am

2. Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

3. Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_

Please include signature, date, and time

Lab Use Only:

20802001



## EMLab P&K

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Report for:

**Mr. Wes Frey**  
**Hygiene Technologies International, Inc.: Northern California**  
3127 Bowen Island Street  
West Sacramento, CA 95691

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Regarding:      Project: 20802001  
                     EML ID: 391390

Approved by:

Lab Manager  
Magzoub Ismail

Dates of Analysis:  
Direct microscopic exam (Qualitative): 02-26-2008

Project SOPs: Direct microscopic exam (Qualitative) (I100005)

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Document Number: 200091 - Revision Number: 5

Client: Hygiene Technologies International, Inc.:  
Northern California  
C/O: Mr. Wes Frey  
Re: 20802001

Date of Sampling: 02-20-2008  
Date of Receipt: 02-21-2008  
Date of Report: 02-26-2008

**DIRECT MICROSCOPIC EXAMINATION REPORT**

(Wet Mount)

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1718117-1: Tape sample 20802001-TL109ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718118-1: Tape sample 20802001-TL110ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718119-1: Tape sample 20802001-TL111ME				
Moderate	None	None	None	No mold spores detected
Lab ID-Version: 1718120-1: Tape sample 20802001-TL112ME				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 1718121-1: Tape sample 20802001-TL113ME				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1718122-1: Tape sample 20802001-TL114ME				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 1718123-1: Tape sample 20802001-TL115ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718124-1: Tape sample 20802001-TL116ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718125-1: Tape sample 20802001-TL117ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718126-1: Tape sample 20802001-TL118ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718127-1: Tape sample 20802001-TL119ME				
Light	Very few	None	None	Normal trapping

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1718128-1: Tape sample 20802001-TL120ME				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 1718129-1: Tape sample 20802001-TL121ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718130-1: Tape sample 20802001-TL122ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718131-1: Tape sample 20802001-TL123ME				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1718132-1: Tape sample 20802001-TL124ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718133-1: Tape sample 20802001-TL125ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718134-1: Tape sample 20802001-TL126ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718135-1: Tape sample 20802001-TL127ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718136-1: Tape sample 20802001-TL128ME				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1718137-1: Tape sample 20802001-TL129ME				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1718138-1: Tape sample 20802001-TL130ME				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1718139-1: Tape sample 20802001-TL131ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718140-1: Tape sample 20802001-TL132ME				
Light	None	None	None	No mold spores detected

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1718141-1: Tape sample 20802001-TL133ME				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1718142-1: Tape sample 20802001-TL134ME				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1718143-1: Tape sample 20802001-TL135ME				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1718144-1: Tape sample 20802001-TL136ME				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1718145-1: Tape sample 20802001-TL137ME				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1718146-1: Tape sample 20802001-TL138ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718147-1: Tape sample 20802001-TL139ME				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1718148-1: Tape sample 20802001-TL40ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718149-1: Tape sample 20802001-TL141ME				
Moderate	Very few	None	None	Normal trapping
Lab ID-Version: 1718150-1: Tape sample 20802001-TL142ME				
Scant	None	None	None	No mold spores detected
Lab ID-Version: 1718151-1: Tape sample 20802001-TL143ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718152-1: Tape sample 20802001-TL144ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718153-1: Tape sample 20802001-TL145ME				
Light	Very few	None	None	Normal trapping

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression
Lab ID-Version‡: 1718154-1: Tape sample 20802001-TL146ME				
Light	None	None	None	No mold spores detected
Lab ID-Version: 1718155-1: Tape sample 20802001-TL147ME				
Light	Very few	None	None	Normal trapping
Lab ID-Version: 1718156-1: Tape sample 20802001-TL148ME				
Moderate	Very few	None	None	Normal trapping

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## Request For Analysis

Project Number/Purchase Order: 20802.001 Date Submitted: 2/21/08  
Project Contact: Wes Frey Turnaround Required: Standard  
Lab Destination: FML Lab Contact: \_\_\_\_\_

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20802001-TL109ME	N/A	Bio Tape	Surface Fungi ID
-TL110ME			
-TL111ME			
-TL112ME			
-TL113ME			
-TL114ME			
-TL115ME			
-TL116ME			
-TL117ME			
-TL118ME			
-TL119ME			
-TL120ME			
-TL121ME			
-TL122ME			
-TL123ME			
✓ -TL124ME	✓	✓	✓

Special Instructions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1. Sampled by: Makka Em 2/20/08 17:00 Received by: GU 2/20/08 5:00  
2. Relinquished by: GL 2/21/08 1:00 Received by: [Signature] 2/21/08 9:45  
3. Relinquished by: \_\_\_\_\_ Received by: [Signature] F022208/1000  
Please include signature, date, and time

Lab Use Only:

391590



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Torrance, California 90503-1643  
(310) 370-8370  
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www.hygienetech.com

## Request For Analysis

Project Number/Purchase Order: 20802001 Date Submitted: 2/21/08  
Project Contact: Wes Frey Turnaround Required: standard  
Lab Destination: EML Lab Contact: \_\_\_\_\_

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
20802001 - TL125ME	N/A	Bio Tape	Surface Fungi ID
↓ - TL126ME	↓	↓	↓
↓ - TL127ME	↓	↓	↓
↓ - TL128ME	↓	↓	↓
↓ - TL129ME	↓	↓	↓
↓ TL130ME	↓	↓	↓
↓ TL131ME	↓	↓	↓
↓ TL132ME	↓	↓	↓
↓ TL133ME	↓	↓	↓
↓ TL134ME	↓	↓	↓
↓ TL135ME	↓	↓	↓
↓ TL136ME	↓	↓	↓
↓ TL137ME	↓	↓	↓
↓ TL138ME	↓	↓	↓
↓ TL139ME	↓	↓	↓
↓ TL140ME	↓	↓	↓

Special Instructions: \_\_\_\_\_

1. Sampled by: Makka Em 2/20/08 17:00 Received by: GL 2/20/08 9:00  
2. Relinquished by: GL 2/21/08 9:00 Received by: STANDER 2/21/08 9:45  
3. Relinquished by: \_\_\_\_\_ Received by: Amelia F022208/1000

Please include signature, date, and time

Lab Use Only:

391390



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